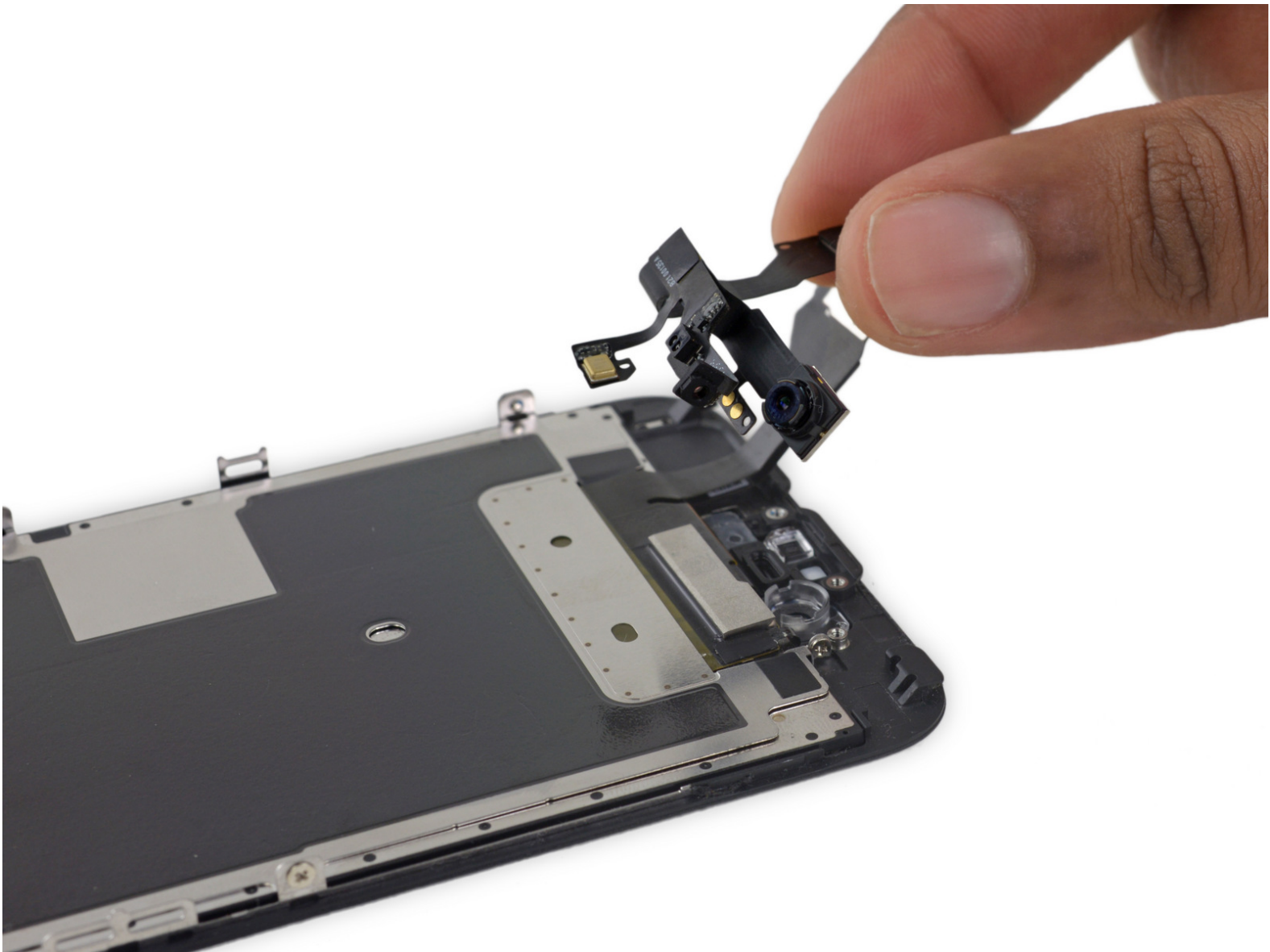




iPhone 6s Front-Facing Camera and Sensor Assembly Replacement

Replace the front panel sensor assembly, including the front-facing camera, ambient light sensor, and microphone in an iPhone 6s.

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INTRODUCTION

Follow the steps in this guide to replace the front panel sensor assembly in an iPhone 6s. This component contains the front-facing camera, ambient light sensor, and microphone.

Note that the earpiece speaker is removed in this guide—be sure to save and transfer the earpiece speaker into your replacement cable assembly when you reassemble.

You can also use this guide to replace the [earpiece speaker bracket](#).



TOOLS:

- [Tweezers](#) (1)
- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)



PARTS:

- [iPhone 6s Front Camera and Sensor Cable](#) (1)
- [iPhone 6s Earpiece Speaker Bracket](#) (1)
- [iPhone 5 to 6s Plus Front Camera Gasket Pads](#) (1)

Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.4 mm P2 Pentalobe screws on the bottom edge of the iPhone, next to the Lightning connector.

Step 2 — Opening Procedure



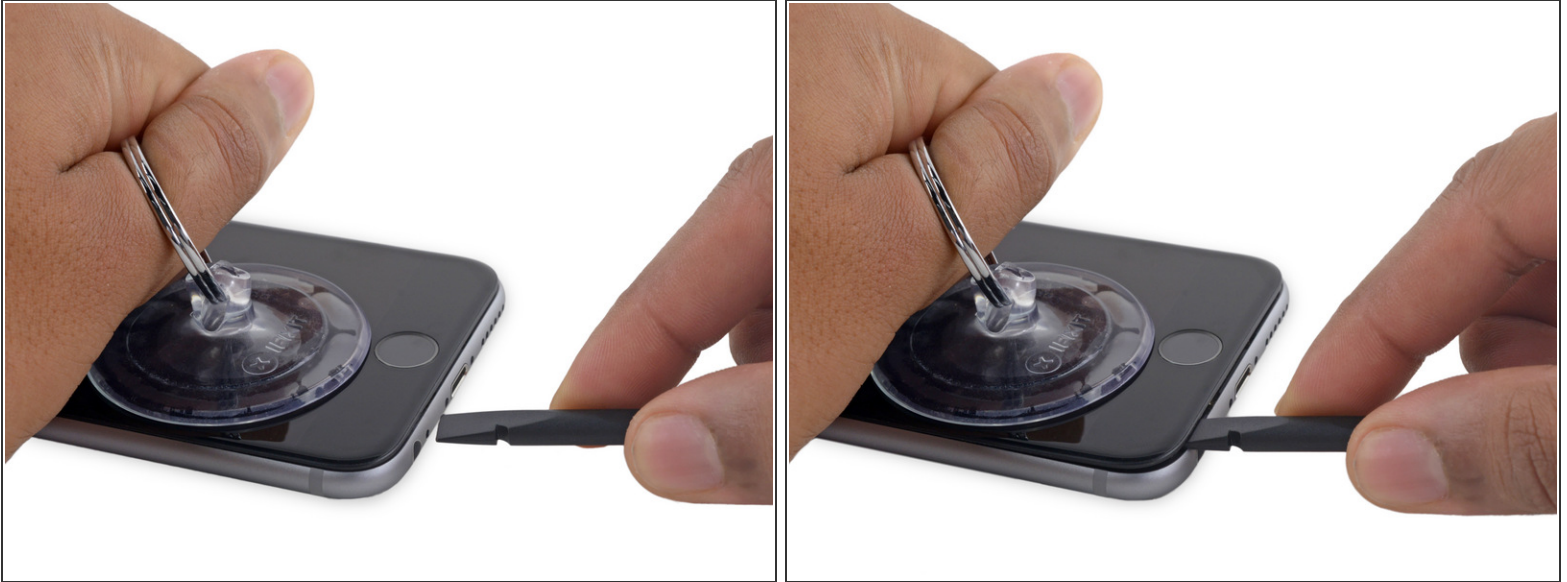
- ❗ Opening the display on the 6s separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.
- Apply a suction cup to the lower left corner of the display assembly.
- Take care **not** to place the suction cup over the home button.

Step 3



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
 - ⓘ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices and is held down with adhesive.
- ⚠ Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.

Step 4



- i** There is a notch on the underside of the display, just above the headphone jack. This is the safest place to begin prying the phone open.
- Place the flat edge of a spudger into the gap between the screen and rear case, directly above the headphone jack.

Step 5



- Twist the spudger to widen the gap between the front panel assembly and the rest of the phone.

Step 6



- Insert the flat end of the spudger on the left side of the phone, between the display assembly and rear case.
- Slide the spudger up the side of the phone to separate the adhesive and pop the clips free.

Step 7



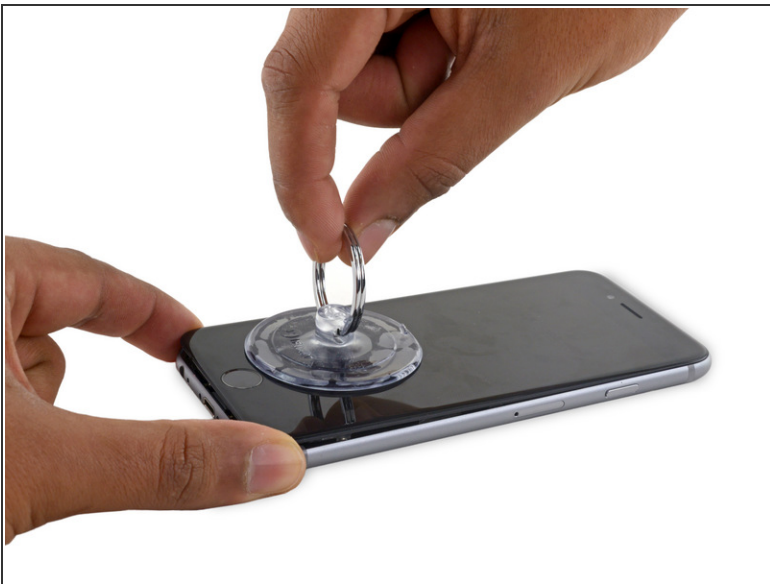
- Remove the spudger and reinsert it on the bottom edge, where you pried the phone open.
- Slide the spudger to the right, along the bottom edge of the phone.

Step 8



- Slide the spudger up the right side to continue separating the adhesive and popping the display clips free from the iPhone.

Step 9



- Use the suction cup to open the display, breaking the last of the adhesive.

⚠ Don't open the display more than 90°, as it is still connected at the top by three cables that may break if stretched.

Step 10



- Pull up on the nub on the top side of the suction cup to remove it from the front panel.

Step 11



- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.

 In a pinch, you can use an unopened canned beverage to hold the display.

Step 12 — Battery Connector



- Remove the two Phillips screws securing the battery connector bracket:
 - One 2.9 mm screw
 - One 2.2 mm screw

Step 13



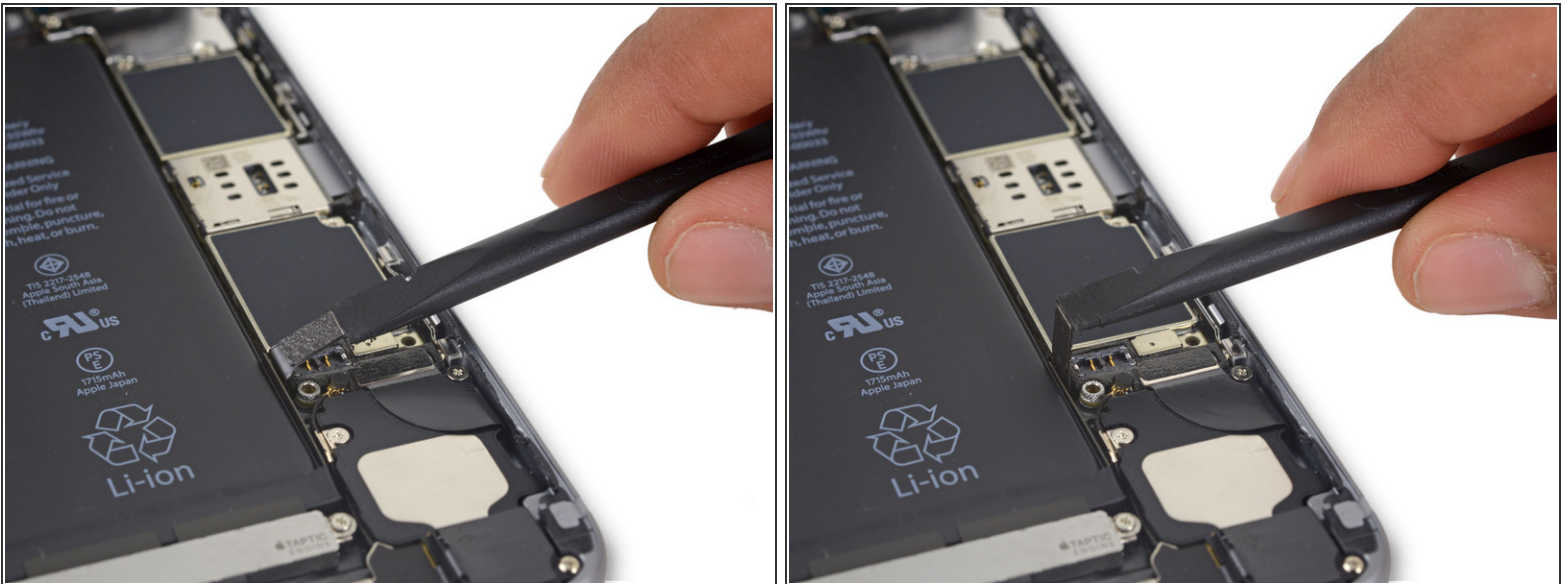
- Remove the battery connector bracket from the iPhone.

Step 14



- Use the point of a spudger to disconnect the battery connector by prying it straight up from the logic board.

Step 15



- Push the battery connector away from the logic board until it stays separated from its socket, so as to avoid any accidental connection to the battery while you work.

Step 16 — Front Panel Assembly



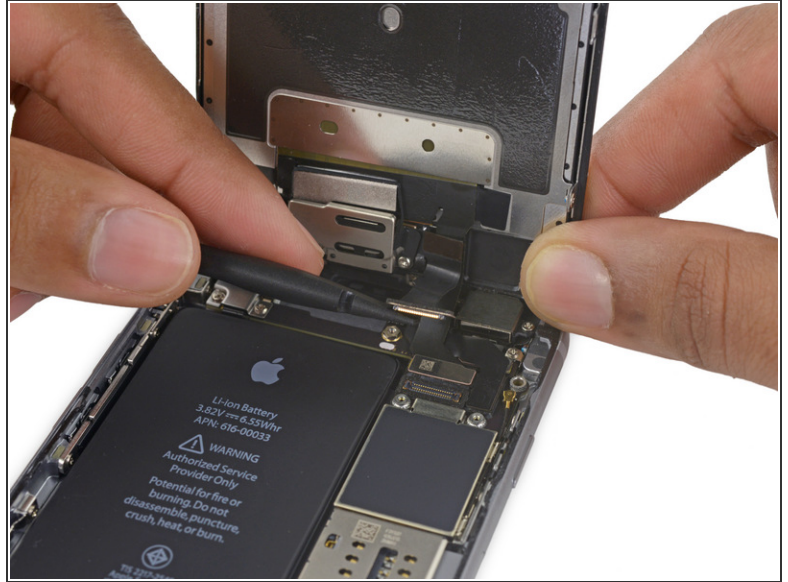
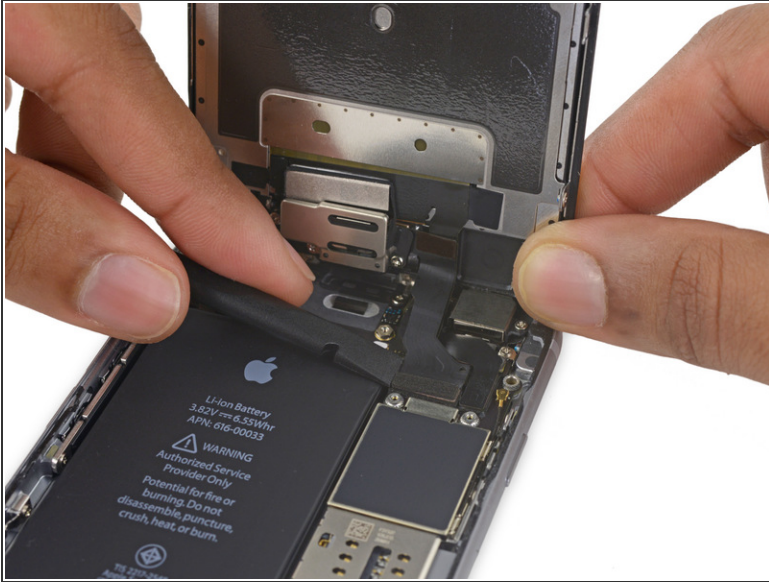
- Remove the following four Phillips screws securing the display cable bracket:
 - Three 1.2 mm screws
 - One 2.8 mm screw

Step 17



- Remove the display cable bracket.

Step 18



- Use the flat end of a spudger, or a fingernail, to disconnect the front camera flex cable by prying it straight up from its socket on the logic board.

Step 19



- Use the flat end of a spudger, or a fingernail, to disconnect the digitizer cable by prying it straight up from its socket on the logic board.

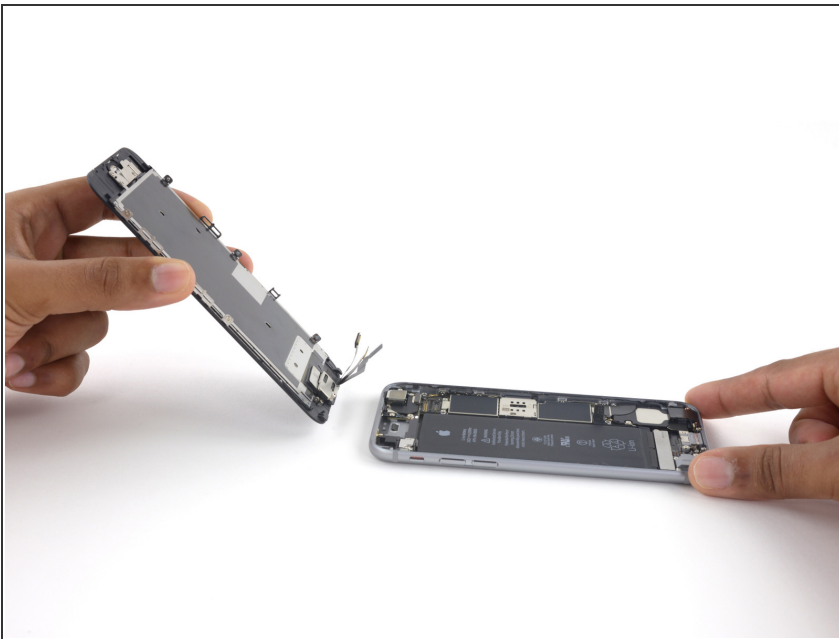
⚠ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

Step 20



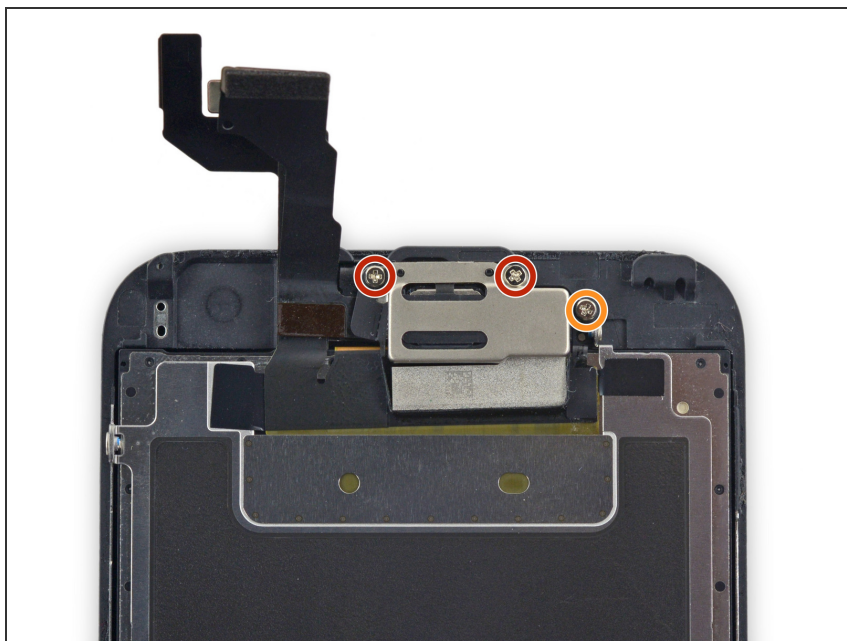
- Use the flat end of a spudger, or a fingernail, to disconnect the display data cable by prying it straight up from its socket on the logic board.

Step 21



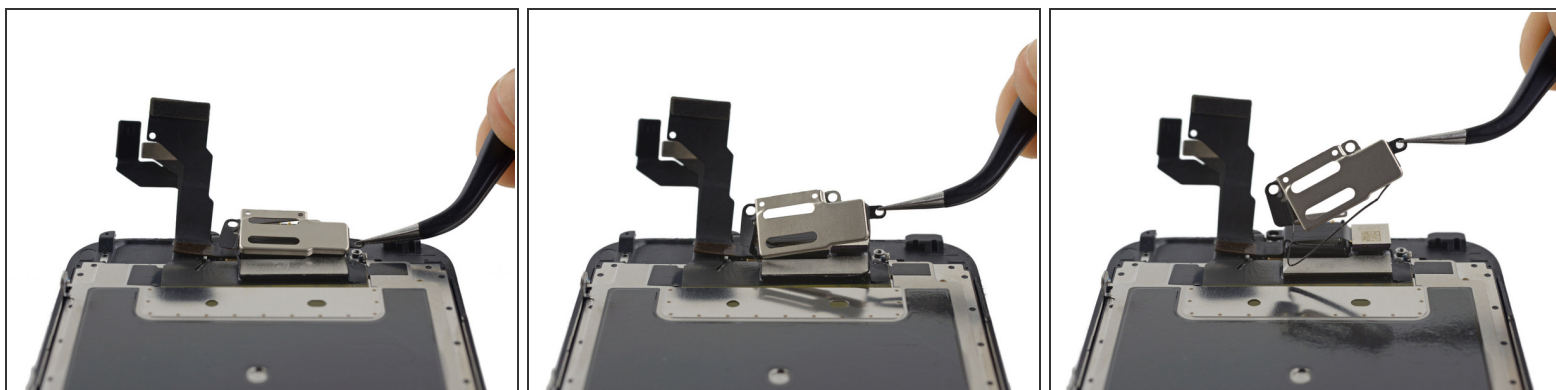
- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

Step 22 — Earpiece Speaker



- Remove the following three Phillips screws securing the earpiece speaker bracket:
 - Two 2.3 mm screws
 - One 1.3 mm screw

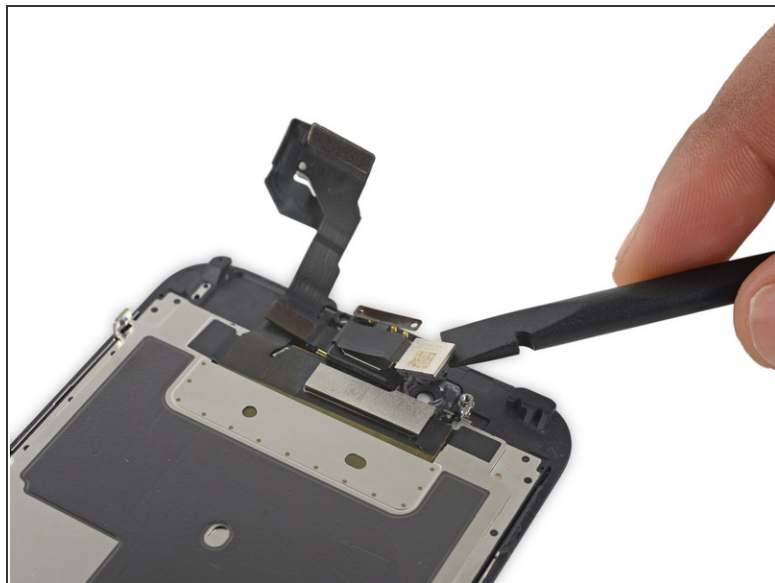
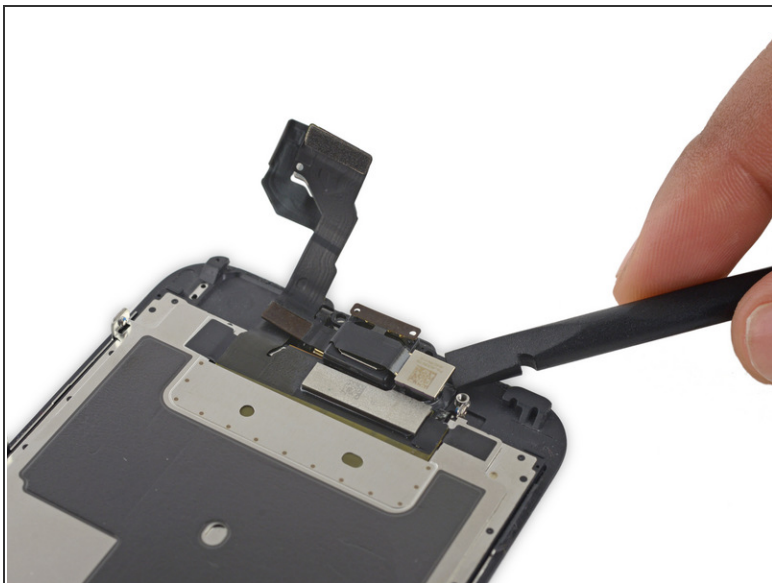
Step 23



- Lift up and remove the earpiece speaker bracket, peeling up the bracket gasket as you go.

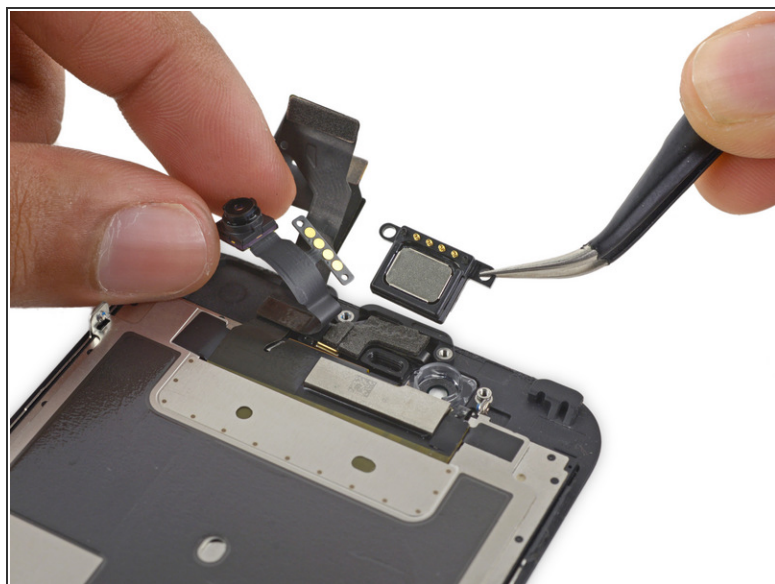
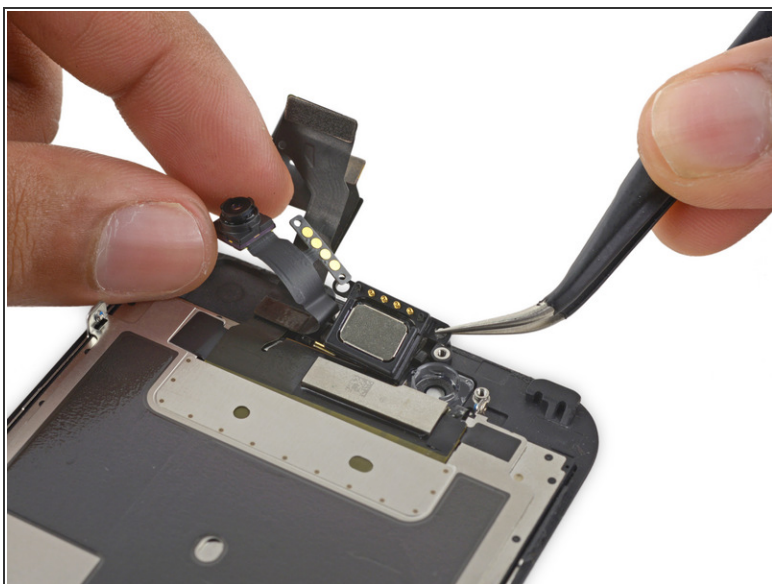
⚠ Peel up the gasket carefully, as it is thin and can tear easily.

Step 24



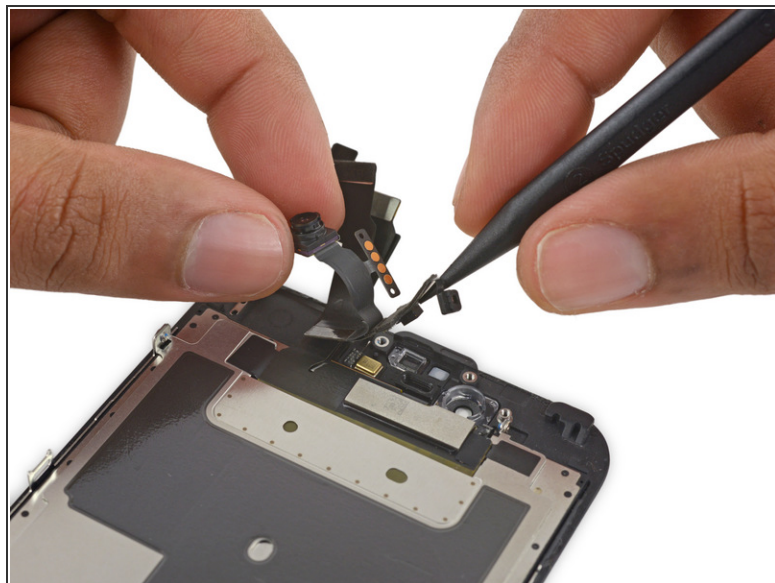
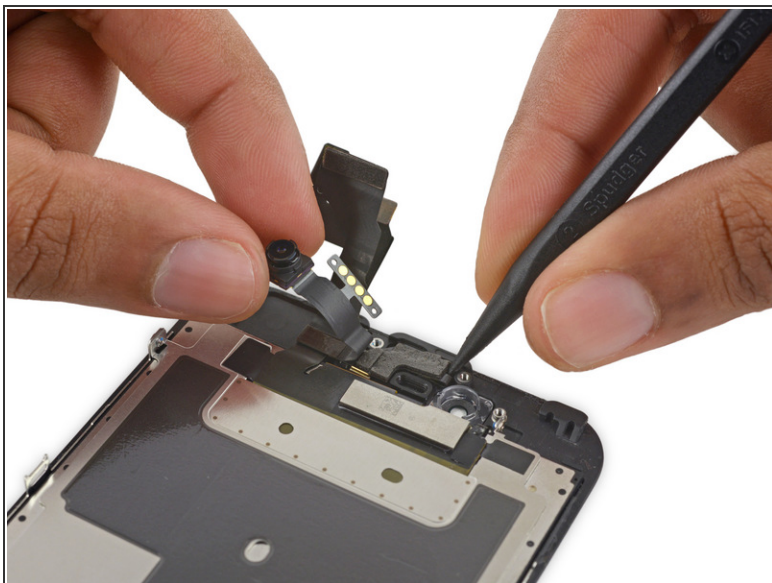
- Use the flat end of a spudger to nudge the front-facing camera from its housing.

Step 25



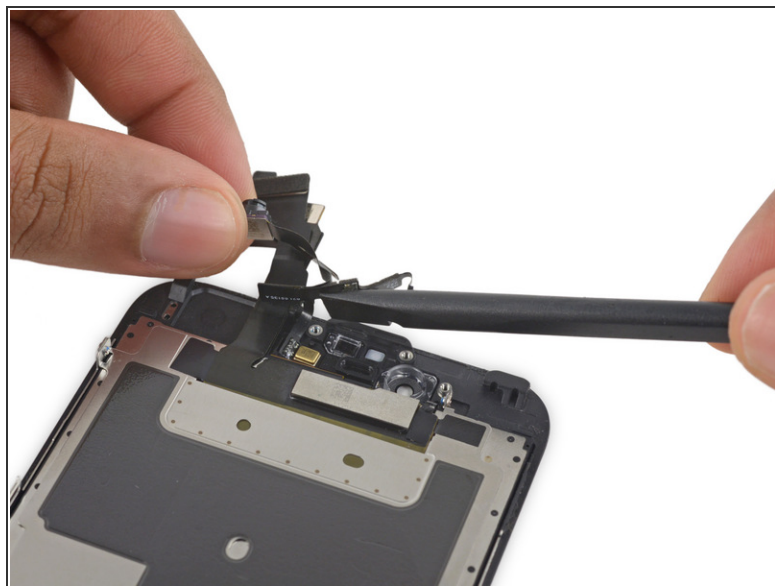
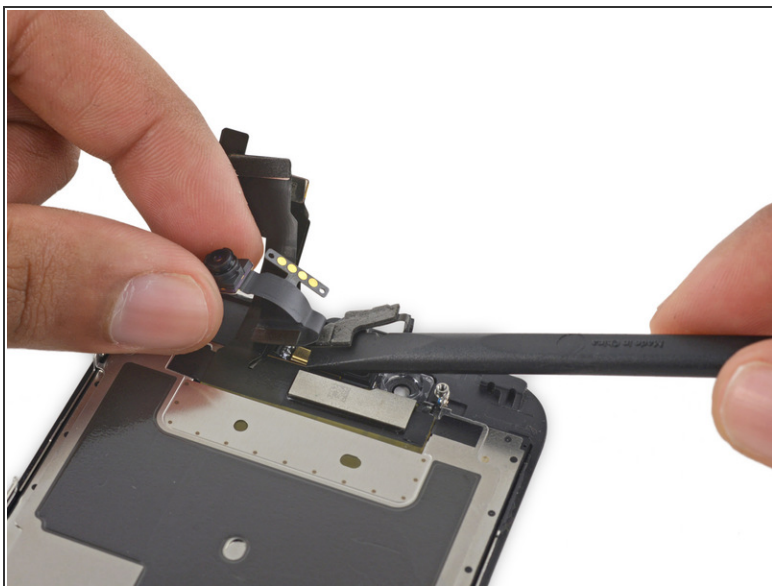
- Pull back the front-facing camera to access the earpiece speaker.
- Remove the earpiece speaker.

Step 26 — Front-Facing Camera and Sensor Assembly



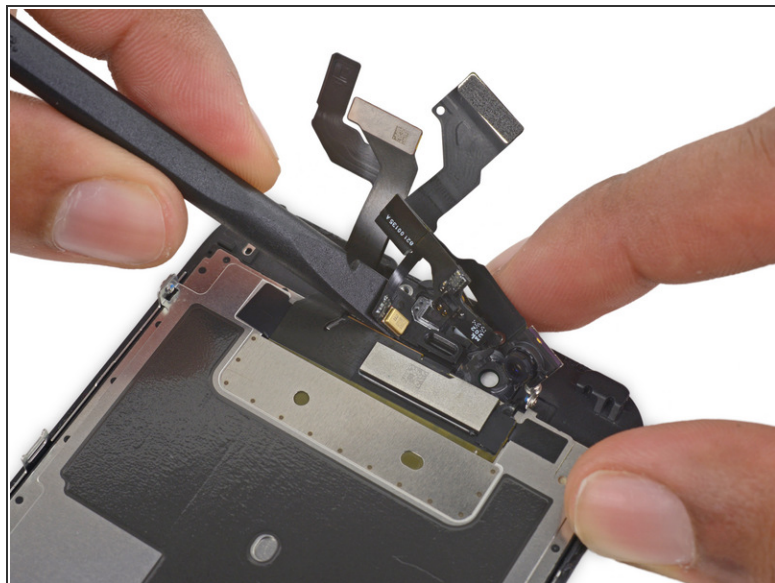
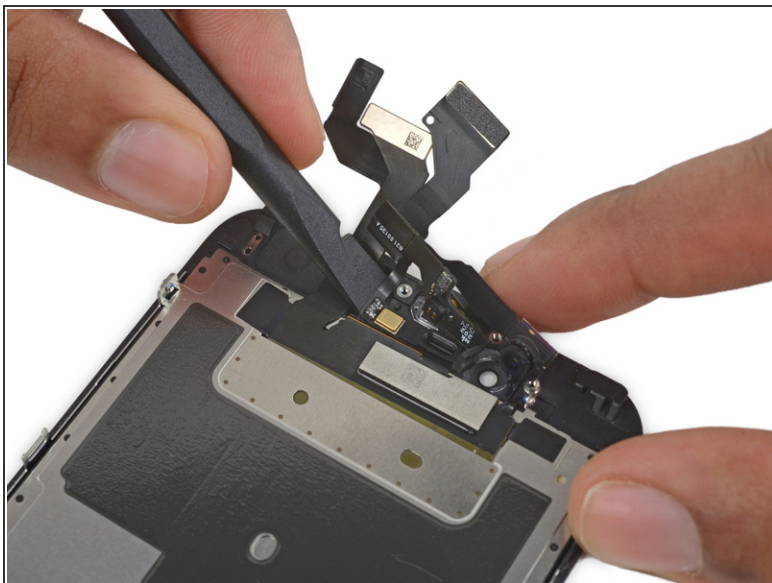
- Holding the front-facing camera out of the way, use the point of a spudger to push the ambient-light sensor up out of its recess in the front panel.

Step 27



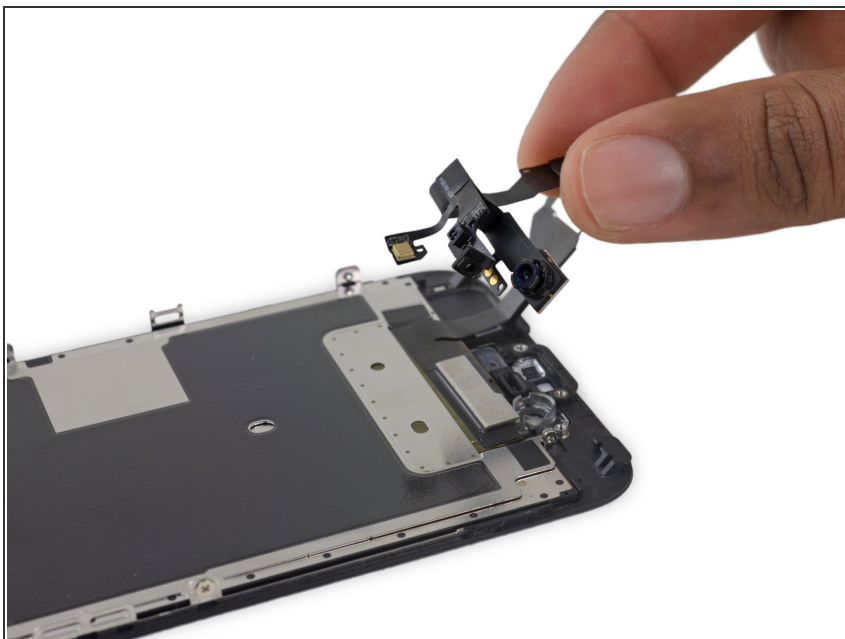
- Fold the front-facing camera and sensor cable up to allow access to the microphone.

Step 28



- Use the flat end of a spudger to gently break up the adhesive securing the microphone to the front panel.

Step 29



- Remove the front-facing camera and sensor cable.

To reassemble your device, follow these instructions in reverse order.

